



COMMONWEALTH AGRICULTURAL BUREAUX

Horticultural abstracts





COMMONWEALTH BUREAU OF HORTICULTURE AND PLANTATION CROPS

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Volume 50



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By-products	

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TEMPERATE TRE		IITS A	ND	NIITS													
(Continued)	CIRC	IISF	IND	11015		61											
Figs					***	22	_		206	266	339	-	501	-	6000	673	400
Mulberries					***		79	-	-		-		501	-		-	725
Peaches and nect	arines	***	***	•••	***	22	79	145	206	266	339	421	501	571	630	673	725
Pears		***	***	***	***	23	80	146	208	267	341	422	503	572	631	674	726
Pecans and hicko		•••	***	•••	***	24	81	147	208	268	342		504	574	631	-	727
Pistachios	d dam		•••	•••	***	24	81 81	147	208	268 268	342	423	504	574	631	674	727
Plums, prunes an Quinces			***	•••	***	24	81	14/	208	200	342	423	504	575	031	674	727
Walnuts	•••	•••	•••	•••	•••	24	81	148	209	269	342	424	504	575	632	674	727
Sundry crops	Jog 1	SUA	Trist	anut -	(5/4	25	81	Ecb	209	269	343	424	504	-	632	674	727
SMALL FRUITS A																	
General			***	***		25	82	148	209	269	343	424	505	575	632	674	727
Actinidia species		4.				25	-	53	209	270	343	424	505	575	632	674	-
Currants	•••			•••		25	82	-	-	270	343	424	505	576	632	675	728
Gooseberries	550	287	1276	(***)	***	201	82	63	6	270	343	-	505	nition	632	675	729
Minor Ribes spec		1.8.1	9111	62.4		137	82	148	209	1-1		424	505	***	633	DI TIPE	729
Blackberries		5.5.1	•••	(TEE	BELL	25	82	148	210	270	343	424	505	576	633	675	729
Minor Rubus spe	cies	990	41.5	15.2	627	25	-04	148	210	270	344	724	303	3/0	634	676	730
Vaccinium specie		(721)	***		800	25	83	148	210	270	344	425	506	576	634	676	730
Strawberries	-0%	0.64		2.2.5	6	25	83	149	211	270	344	425	506	576	634	676	731
Vines		1187		•••	Deser.	26	83	150	211	271	345	426	507	577	635	677	733
General			7			26	83	150	211	271	-	426	507	577	635	TO THE	733
Selection and	variet	ies		•••		-	83	150	211	271	345	426	507	577	635	1011111	733
Propagation a:	nd pla	nting		•••		26	84	150	211	272	345	426	507	578	to Table	677	733
Climate	-35	***	C			26	84	151	212	272	346	427	507			677	734
Management	Jones.	10,00	***	335	-3-	26	84	151	212	272	346	427	508	578	635	677	734
Soils and nutr		***		3.00	100	27	85 85	151	212	272 273	346	427	508 508	578 579	636	678	734 735
Crop protection Physiology an		hemie	trv.		***	27	85	152	212	274	347	428	509	579	636	679	735
Reproduction				•••	***	27	85	152	213	274	348	428	-	579	636	679	736
Harvesting and			•••	***		27	86	153	213	275	349	_	509	580	637	679	736
Quality	-102			3100		27	86	-	-	275	349	429	509	580	637	679	737
By-products	***	***		•••	***	-		-		-	349	OF N	SIL	HILL	NIE	LILAN	1111
Sundry crops						ITTS	000		6	275	349	white	509	580	115	17/10	1577
VEGETABLES, TE		ATE,	TRC	PICAL	AND												
GREENHOUS General	E									275	350	400					
General						28	96	1.52	213				500	580	637	680	737
	***	****				28	86 87	153	213			429	509	580	637	680	737
Alliaceae	***	•••	avel.	****	***	28	87	153	213	275 275	350 350	429 430 430	509 512 512	580 582 582	637 638 638	680 680	737 738 738
Alliaceae				•••					214	275	350	430	512	582	638	680	738
Alliaceae Garlic	•••	•••	****			28	87 87	153	214	275 275	350 350	430 430	512 512	582 582	638 638	680	738 738
Alliaceae Garlic Leeks Onions Other Allium	•••		····			28 28 28 29	87 87 87 87	153 153 153	214 214 214	275 275 275 275 275 276	350 350 351 351	430 430 - 430	512 512 512 512 512 513	582 582 582 582	638 638 638 638	680 680 - 680	738 738 738 738
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae	•••		(***	•••		28 28 28 29 29	87 87 87 87 — 88	153 153 153 154	214 214 214 216	275 275 275 275 275 276 276	350 350 351 351 - 352	430 430 - 430 - 431	512 512 512 512 513 513	582 582 582 582 582 -	638 638 638 638 -	680 680 - 680 - 680	738 738 738
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet	 specie	 S				28 28 28 29 29 29	87 87 87 87 — 88 88	153 153 153 - 154 154	214 214 214 - 216 216	275 275 275 275 276 276 276 276	350 350 351 351 - 352	430 430 - 430 - 431	512 512 512 512 513 513 513	582 582 582 582 583 583	638 638 638 638 - 639 639	680 680 - 680 -	738 738 738 738 739
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach	specie	s				28 28 28 29 29 29 30	87 87 87 87 — 88 88 88	153 153 153 154 154 155	214 214 214 216 216 216 216	275 275 275 275 276 276 276 276	350 350 351 351 - 352 - 352	430 430 - 430 - 431 - 431	512 512 512 512 513 513 513	582 582 582 582 583 583 583	638 638 638 638 639 639	680 680 - 680 - 680	738 738 738 738
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet	specie	s				28 - 28 28 29 29 29 30 -	87 87 87 87 - 88 88 88	153 153 153 154 154 155	214 214 214 - 216 216 216 216	275 275 275 275 276 276 276 276 276 277	350 350 351 351 - 352 - 352 352	430 430 - 430 - 431 - 431	512 512 512 512 513 513 513	582 582 582 582 - 583 583 583 583	638 638 638 639 639 639	680 680 - 680 - 680 - 680	738 738 738 738 - 739 - 739
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae	specie	s				28 28 28 29 29 29 30	87 87 87 87 — 88 88 88	153 153 153 154 154 155	214 214 214 216 216 216 216	275 275 275 275 276 276 276 276	350 350 351 351 - 352 - 352	430 430 - 430 - 431 - 431	512 512 512 512 513 513 513 513	582 582 582 582 583 583 583	638 638 638 638 639 639	680 680 - 680 - 680	738 738 738 738 739
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae Artichokes (je	specie	s				28 - 28 28 29 29 29 30 - 30	87 87 87 87 - 88 88 88	153 153 153 154 154 155 155	214 214 214 - 216 216 216 216 216	275 275 275 275 276 276 276 276 276 277	350 350 351 351 - 352 - 352 352 352 352	430 -430 -431 -431 -431	512 512 512 512 513 513 513	582 582 582 582 - 583 583 583 583 583	638 638 638 639 639 639	680 - 680 - 680 - 680 - 680	738 738 738 738 - 739 - 739
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae	specie	s m)				28 28 28 29 29 29 30 - 30 30	87 87 87 87 - 88 88 88 - 88	153 153 153 154 154 155 155	214 214 214 216 216 216 216 216 216	275 275 275 275 276 276 276 276 277 277	350 350 351 351 - 352 - 352 352 352 352 352	430 - 430 - 431 - 431 - 431	512 512 512 512 513 513 513 513 - 514 514	582 582 582 582 583 583 583 583 583 583	638 638 638 639 639 639 -	680 680 - 680 - 680 - 680 - 680 680	738 738 738 738 739 - 739 - 739 739
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae Artichokes (je Artichokes (gl	specie rusale	s m)				28 28 28 29 29 29 30 - 30 30	87 87 87 87 - 88 88 88 - 88	153 153 153 154 154 155 155	214 214 214 216 216 216 216 216	275 275 275 275 276 276 276 276 277 277 277 277	350 350 351 351 - 352 - 352 352 352 352 - -	430 430 430 431 - 431 - 431 - 431	512 512 512 512 513 513 513 513 - 514 514	582 582 582 583 583 583 583 583 583 583	638 638 638 639 639 639 - 639	680 680 - 680 - 680 - 680 - 680 680	738 738 738 738 739 - 739 - 739 739
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae Artichokes (je Artichokes (gl) Cardoons Chicory Endive	specie rusale	s				28 - 28 28 29 29 29 30 - 30 30 30 30 30	87 87 87 87 - 88 88 88 - 88 88 - 88	153 153 153 154 154 155 155	214 	275 275 275 275 276 276 276 276 277 277 277 277 277	350 350 351 351 - 352 - 352 352 352 352 - - - 352	430 430 	512 512 512 512 513 513 513 513 - 514 514	582 582 582 582 583 583 583 583 583 583 583 583 583	638 638 638 639 639 639 639 	680 680 - 680 - 680 - 680 - 680	738 738 738 738 - 739 - 739 - 739 739 739 - 740
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Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae Artichokes (je Artichokes (gl Cardoons Chicory Endive Lettuce Salsify	specie rusale obe)	s m)				28 	87 87 87 87 - 88 88 88 - 88 88 - 88 88 - 88	153 153 153 154 154 155 155 	214 	275 275 275 275 276 276 276 277 277 277 277 277 278 278	350 350 351 351 - 352 - 352 352 352 - - - 352 352 - -	430 430 	512 512 512 513 513 513 513 - 514 514 - 514	582 582 582 582 583 583 583 583 583 583 583 583 584	638 638 638 639 639 639 639 639 639	680 680 - 680 - 680 - 680 680 - 680	738 738 738 738 739 - 739 - 739 739 739 - 740 -
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae Artichokes (gl Cardoons Chicory Endive Lettuce Salsify Scorzonera	specie	s m)				28 28 29 29 29 30 - 30 30 30 - -	87 87 87 87 88 88 88 88 88 88	153 153 153 154 154 155 	214 	275 275 275 275 276 276 276 276 277 277 277 277 277 278 278 279	350 350 351 351 - 352 352 352 352 - - 352 352 - -	430 430 	512 512 512 513 513 513 513 - 514 - 514 - 514	582 582 582 583 583 583 583 583 583 583 584 584	638 638 638 639 639 639 639 639 639	680 680 - 680 - 680 - 680 - 680	738 738 738 738 739 - 739 - 739 739 - 740 - 740
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae Artichokes (gl Cardoons Chicory Endive Lettuce Salsify Scorzonera Other compos	specie rusale obe) ites	s m)				28 28 29 29 29 30 - 30 30 30 -	87 87 87 87 - 88 88 88 - 88 - 88 - 88 -	153 153 153 154 154 155 155 	214 214 214 216 216 216 216 216 216 216 	275 275 275 275 276 276 276 277 277 277 277 277 278 278 279	350 350 351 351 - 352 - 352 352 352 - - 352 352 - - - - -	430 430 	512 512 512 513 513 513 513 514 514 - 514 -	582 582 582 582 583 583 583 583 583 583 583 584 584	638 638 638 639 639 639 	680 680 	738 738 738 738 739 - 739 - 739 739 739 - 740 -
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae Artichokes (gl Cardoons Chicory Endive Lettuce Salsify Scorzonera Other compos	specie rusale obe) ites	s				28 28 29 29 29 30 - 30 30 30 - -	87 87 87 87 88 88 88 88 88 88	153 153 153 154 154 155 	214 	275 275 275 275 276 276 276 276 277 277 277 277 277 278 278 279	350 350 351 351 - 352 352 352 352 - - 352 352 - -	430 430 	512 512 512 512 513 513 513 513 514 514 - 514 - 514	582 582 582 583 583 583 583 583 583 583 584 584	638 638 638 639 639 639 639 639 639	680 680 - 680 - 680 - 680 680 - 680	738 738 738 738 739 - 739 - 739 739 - 740 - 741 741
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Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae Artichokes (gl Cardoons Chicory Endive Lettuce Salsify Scorzonera Other compos Cruciferae Brassicas Cress Radishes Watercress	specie rusale obe) ites	s				28 28 28 29 29 29 30 30 30 30 30 30 30 30 30 30	87 87 87 87 	153 153 153 154 154 155 155 	214	275 275 275 275 276 276 276 276 277 277 277 277 277 278 278 279 279 279 280 280	350 350 351 351 - 352 352 352 352 352 - - 353 353 353 354 354	430 430 	512 512 512 513 513 513 513 514 514 	582 582 582 582 583 583 583 583 583 583 584 584 	638 638 638 639 639 639 	680 680 	738 738 738 738 739 - 739 739 739 740 - 740 - 741 741 741 743 743
Alliaceae Garlic Leeks Onions Other Allium Chenopodiaceae Red beet Spinach Spinach beet Compositae Artichokes (gl Cardoons Chicory Endive Lettuce Salsify Scorzonera Other compos Cruciferae Brassicas Cress Radishes Watercress Cucurbitaceae	specie ites	m)				28 28 28 29 29 29 30 30 30 30 30 30 30 30 30 30	87 87 87 87 	153 153 153 154 154 155 155 155 155 156 156 156 157 157	214	275 275 275 275 276 276 276 276 277 277 277 277 277 278 278 279 279 280 280 281	350 350 351 351 - 352 352 352 352 352 - - 353 353 354 354 - 354	430 430 	512 512 512 513 513 513 513 514 514 	582 582 582 582 583 583 583 583 583 583 584 584 584 	638 638 638 639 639 639 639 639 639 639 640 640	680 680 	738 738 738 738 739 - 739 739 739 740 - 740 - 741 741 741 743 743
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VEGETABLES, TEMPERATE, TROPICAL AND

VEGETABLES, TEMPERATE, TRO	OPICA	L ANI)											
GREENHOUSE (continued)						010								and a
General			-	-	7	218	-	357	-		-	-	-	746
Selection and varieties		200	33	92		218	282	-	435	517	587	المدا	683	746
Propagation and planting		MOF	33	92	1.50	219	282	357	435	517	587	642	40 200	746
Climate		***	33	-	158	219	116	-	436	-	587	642		746
Management		•••	33	92	158	219	-	357	436	518	588	643	683	747
Soils and nutrition	APP		33	93	159	219	283	-0.0	436	-	588	643	684	747
Crop protection	•••	nns	33	93	159	219	283	-	436	518	-	643	684	747
Physiology and biochemistr	у		34	93	159	219	283	357	437	518	588	643	684	748
Reproduction	075	***	34	HI LI H	1.00	221	-	358	"	519	588		685	749
Harvesting and handling	006	***	34	- 04	:160	-	204	358	420	-	588	644	685	-
Quality	***	***	34	94	160	221	284	-	438	519	589	-	685	749
Beans (Vicia)		***	35	94	160	221	284	358	438	520	589	644	685	749
Beans (Cyamopsis)	***	•••	25	- 04	161	221	204	250	420	-	589	-	(05	750
ATT Other severe CON	***	P.05	35	94	161	221	284	359	438	520	589	644	685	750
Other genera	***	•••	-	06	161	222	1	260	440	522	500	-	(0)	751
Liliaceae – Asparagus Malvaceae – Okra	1195	***	-	96	161	223	205	360	440	522	590	646	686	751
	0.85	***	- 500	96			285	360	100	522	590	646	686	752
Polygonaceae Rhubarb	***	503	25	96	160	223	285	361	441	522	500	-	(07	750
Solanaceae	nor	121	35	96	162	223	285	361 361	441		590	646	687	752
Capsicums Eggplants	9		35		162	223			441	522	590	646	687	752
185 - 100 -		FOE	36	97	162	223	286 286	361 362	441	523 523	591	647	-	753 753
C		MARK.		97	162	224				523	591		107	753
0.1 11 1 1 1 1		•••	36 37	97	162	224	286	362 362	442	523	591	647	687	753
Propagation and planting	***	***	37	97	163	224	287	362	442	523	591	647	687	754
CITY CONTRACTOR OF THE CONTRAC	***	***			163	224	201	362	442	523	592	04/	687	754
THE DESCRIPTION AND ADD ADD	7 7 7 7		38	97	163	224	287	362	443	524	592	647	687	754
Management Soils and nutrition	787	TOL	38	98	164	224	288	363	443	524	593	648	688	755
Crop protection	7 11.	***	38	98	164	224	288	363	443	524	593	648	688	756
Physiology and biochemistr	···	****	39	99	165	225	288	364	444	525	594	648	688	757
THE REST OF THE PARTY		KOE	39	100	165	225	200	364	444	525	595	648	689	757
Harvesting and handling	181	ROE	40	100	166	226	289	365	_	525	595	_	689	758
Quality	785	808	40	100	100	226	289	365		525	596	648	690	758
Umbelliferae	EOE	11	41	101	166	226	289	365	444	526	596	649	690	758
Carrots	898	1111	41	101	166	226	289	365	444	526	596	649	690	758
Parsnips			-	_	166		40	TATI	445	526	MTA	1 40	MON	130
Celery			41	101	166	226	290	366	445	526	596	_	690	760
Celeriac	EVE	TIE	243	102	5_	227		367	445	-	-		690	760
Sundry crops	EQE	111	ENS	102	166	227	290	367	445	526	597	649	690	760
Mushrooms			41	102	166	227	290	367	446	527	597	649	690	760
ORNAMENTAL PLANTS														
General	845	11.8	42	103	166	228	291	367	446	527	597	649	691	761
Propagation and nursery managen			42	104	167	228	292	368	446	529	597	18.40	691	762
Weed control and plant protection	n-gene	ral	42	104	167	228	-	368	447	529	1 149	650	691	
Carnations and pinks			42	104	167	229	292	369	447	529	597	650	691	762
Chrysanthemums	02.5	1.1.	43	105	167	229	292	369	447	529	598	650	692	763
Geraniums or pelargoniums	11.94	818	43	106	168	230	293	370	448	530	598	650	692	764
Gerberas	3.95	14.	43	106		118-	293	370	448	530	598	650	692	-
Morning glories	29.5	EL.	246	28L 8	168	28			448	ms450	599	650	692	765
Petunias	11.5	1.1.1.	44	106	168	230	293	371	449	530	599	650	692	765
Primulas	342	11.5	2/15	107		-16	-		449	530	an-bro		Marve	-
Snapdragons	188	5 LL	44		169	230	294	371	449	-		651	MICH C	765
Other annual and herbaceous plan	its		44	107	169	230	294	371	449	530	599	651	692	765
Bulbs, tubers, etc general	19.6	+1.5.	45	108	169	-	-	373		-	599	-	693	767
Anemones			-		-	230	296	-	-		-	-	693	APILL.
Begonias		41.1.	45	108	169	230	296	373	451	532	600	651	693	767
Crocuses			45			230	-		-1-	532		-	10-20	
Cyclamen	T.I.		-	108	170	231	296	374	451	533	-	-		767
Dahlias	****	·	-	8	She				451	533		401	meters	767
Freesias	184	41.1.	45	8 -187	S 2	-	296		451	533				767
Gladioli	- 5.6		45	108	170	231	296	374	451	533	600	440		768
Gloxinias	B C	2	100	109	2 -		297	375	-			-410	ma m	768
Hyacinths	895	51.5	45	100		-	000	375	451	-	-	101	-	768
Irises	***	•••	45		170		297		450	533	600			768
Lilies	***	***	45	109	170	231	297	375	452	533	600	651	694	768-

ORNAMENTAL PLANTS (continued)													
						1/4 1/	DITTO		BRAT			BAT	UBN
			109		231	298	375	452	533	601	01413	694	768
		-			231			_	_	_	lower	-	
The state of the s		46			231	298	375	452	533	601	652	10-	769
		46	110		232	298	376	1	533	601	652	694	769
No. of the last of		46			232	298	376	453	533	601	652	695	769
		117.	111	- /		-	-	-	533	-	111	-	
		46	DI - 180	-	-	-		-, -	mold	THE PARTY	MEN.	08-	770
		46			233	299	376	454	534	601	652	695	770
		46			233	300	377	454	534	-	652	695	771
		47	112	174	233	301	378	455	535	602	653	696	772
			PAF	-	-	(-)	379	455	-	DOT 11		696	772
	174	1 -	01-14	1	1-	-	379	456	535	_	653	11-	773
		47	00 - 10		235	_	380	456	535	603	653		773
					235	301	380	456	536	N. TEN	100	111-1	
		47			235	301	380	456	536	603	653	696	773
		_		175		302	-	456	-	603	15,751	050	774
		-	114	_	236			111	536	603	-		774
		E-	70 H 30	-		-1-	380	_	536	****	0.00	MACH	774
		47	-	-	-		380	15	700		125501	N STEIN	774
	. ch.	47		175	-	302	-	456	-	603	03-01		774
		60-			236	302	380	456	536	603	654	116	774
Rhododendrons and azaleas		48			236	302	380	457	536	603	654	696	774
		48			236	303	381	457	537	603	654	697	775
		48	115	177	237	304	382	458	537	604	654	697	776
MINOR TEMPERATE AND TROPICA	L nas												
INDUSTRIAL CROPS												70%	
		49	Co	-	-	305	1-	459	539		35000	698	-
Condiments and spices		49		178	238	305	385	459	539	604	655	698	778
	. 8	49	118	- 1	238	307	385	461	540	605	but to	699	779
		50	118	178	238	307	385	461	540	605	655	699	779
Hard fibres		-	FUT 66	- 1	-	-	1-1	II TON	(15/5 1 8)	מידונו	A HOU	699	781
		-	119	179	239	308	386	462	541	606	656	700	781
a discount of the same of the		51	801-00	- 1	240	308	387	462	541	606		700	781
		51		179	240	308	387	462	541	607	565	700	781
	. P	54		182	243	311	393	175	546	610	658	702	-
	. 98.	55	123	182	243	311	393	467	546	610	658	702	787
SUBTROPICAL FRUIT AND PLANTA	TION												
CROPS		220	991 10		19					-		Pormo	
General		55	123		243	311	393	467	546	610	-	702	_
General		55 55			243 243	311	393	467	546	610	658	702	- 787
General		55	123	182	243	311	393	467	546 546	610 611	658	702 702	1164
General <	. 094	55	123 - 123	182 - 183	243 - 244	311 - 311	393 - 393	467 - 467	546 546 546	610 611 611	658 - 658	702 702 702	788
General <		55 - 55 -	123 - 123 123	182 - 183 183	243 - 244 244	311 - 311 311	393 - 393 393	467 467 467	546 546 546 546	610 611 611 611	658 - 658 658	702 702 702	788 788
General <	. 09.	55 - 55 - 55	123 - 123 123 123	182 - 183 183 183	243 244 244 244	311 - 311 311 311	393 - 393 393 393	467 467 467 470	546 546 546 546 546	610 611 611 611 611	658 658 658 658	702 702 702 702 - 702	788 788 788
General Avocados Carobs Citrus General Selection and varieties Propagation and planting		55 - 55 - 55 55	123 123 123 123 123 123	182 - 183 183 183 183	243 244 244 244 244	311 311 311 311 311	393 - 393 393 393 394	467 467 467 470 471	546 546 546 546 546 547	610 611 611 611 611	658 658 658 658 659	702 702 702	788 788
General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate		55 - 55 - 55 55 55	123 - 123 123 123 123 124	182 - 183 183 183 183 184	243 - 244 244 244 244	311 311 311 311 311	393 - 393 393 393 394 -	467 467 467 470 471 471	546 546 546 546 546 547 547	610 611 611 611 611 611	658 658 658 658 659	702 702 702 702 702 702	788 788 788 788
General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate Management		55 	123 - 123 123 123 123 124 124	182 - 183 183 183 183 184 184	243 	311 311 311 311 311 312	393 393 393 393 394 - 394	467 467 467 470 471 471 471	546 546 546 546 546 547 547	610 611 611 611 611 611	658 658 658 658 659	702 702 702 702 702 702	788 788 788 788 788
General		55 - 55 - 55 55 55 55 55	123 - 123 123 123 123 124 124 125	182 - 183 183 183 184 184 -	243 244 244 244 244 245 245	311 311 311 311 311 - 312 312	393 -393 393 393 394 - 394 394	467 467 467 470 471 471 471	546 546 546 546 546 547 547	610 611 611 611 611 611 611	658 658 658 659 -	702 702 702 702 702 702	788 788 788 788 788 789
General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection		55 - 55 - 55 55 55 55 55 55	123 	182 - 183 183 183 184 184 - 184	243 	311 - 311 311 311 - 312 312 312	393 393 393 393 394 - 394 394 395	467 467 467 470 471 471 471 471 472	546 546 546 546 547 547 547	610 611 611 611 611 611 611 611	658 658 658 658 659 	702 702 702 702 702 702 702	788 788 788 788 789 789 789
General		55 - 55 55 55 55 55 55 56 56	123 	182 — 183 183 183 183 184 184 — 184 185	243 	311 311 311 311 311 - 312 312 312 313	393 - 393 393 393 394 - 394 394 395 395	467 467 467 470 471 471 471 471 472 473	546 546 546 546 547 547 547 548 548	610 611 611 611 611 611 611 612 612	658 658 658 659 - 659 659	702 702 702 702 702 702 702 703	788 788 788 788 789 789 790 791
General		55 - 55 55 55 55 55 55 56 56	123 	182 — 183 183 183 184 184 — 184 185 185	243 244 244 244 245 245 245 246 246	311 311 311 311 311 - 312 312 312 313 313	393 - 393 393 393 394 - 394 394 395 395 396	467 467 467 470 471 471 471 471 472 473 473	546 546 546 546 547 547 547 548 548	610 611 611 611 611 611 611 612 612 612	658 658 658 659 - 659 659	702 702 702 702 702 702 702 703 703	788 788 788 788 789 789 790 791 791
General		55 - 55 55 55 55 55 56 56 56	123 — 123 123 123 124 124 125 125 126 — 127	182 — 183 183 183 183 184 184 — 184 185	243 244 244 244 245 245 245 246 246 246	311 - 311 311 311 312 312 312 313 313	393 - 393 393 394 - 394 395 395 396 396	467 467 470 471 471 471 471 472 473 473	546 546 546 546 547 547 547 548 548 548	610 611 611 611 611 611 612 612 612 613	658 658 658 658 659 	702 702 702 702 702 702 703 703 703 703	788 788 788 788 789 789 790 791 791 792
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General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection Physiology and biochemistry Reproduction Harvesting and handling Quality By-products Dates Feijoas Litchis Longans Loquats Macadamias Olives		55 55 55 55 55 55 56 56 56 57 - 57 - 57	123	182 	244 244 244 244 245 245 245 246 246 246 246 247 247	311 311 311 311 312 312 312 313 313	393 393 393 393 394 394 395 395 396 397 397 397	467 467 467 470 471 471 471 472 473 473 473 473 473 474	546 546 546 546 547 547 547 548 548 548 549 549	610 611 611 611 611 611 612 612 612 613 613 613 613 613	658 658 658 659 	702 702 702 702 702 703 703 703 704 704 704	788 788 788 789 789 790 791 791 792 792 - 793
General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection Physiology and biochemistry Reproduction Harvesting and handling Quality By-products Dates Feijoas Litchis Longans Loquats Macadamias Olives Passion fruit		55 55 55 55 55 55 56 56 56 57 - 57 - 57	123	182 	244 244 244 244 245 245 245 246 246 246 246 247 247 247	311 311 311 311 312 312 312 313 313	393 393 393 393 394 - 394 395 395 396 397 397 - - 397 - 397 398	467 467 467 470 471 471 471 472 473 473 473 473 473 474	546 546 546 546 547 547 547 548 548 548 549 549 549 549	610 611 611 611 611 611 612 612 612 613 613 613 613 613 613	658 658 658 659 659 660 660	702 702 702 702 702 703 703 703 704 704 704	788 788 788 788 789 789 790 791 791 792 792 — 793 — 793 — 794
General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection Physiology and biochemistry Reproduction Harvesting and handling Quality By-products Dates Feijoas Litchis Longans Loquats Macadamias Olives Passion fruit Persimmons		55 55 55 55 55 55 56 56 56 57 - 57 - 57	123	182 	244 244 244 244 245 245 245 246 246 246 246 247 247 247	311 311 311 311 312 312 312 313 313	393 393 393 393 394 394 395 395 396 397 397 397 397 398 398	467 467 467 470 471 471 471 472 473 473 473 473 473 474	546 546 546 546 547 547 547 548 548 549 549 549 549 549	610 611 611 611 611 611 612 612 612 613 613 613 613 613 613 614 614	658 658 658 659 659 660 660	702 702 702 702 702 703 703 703 704 704 704	788 788 788 788 789 789 790 791 791 792 792 - 793 - 793 - 794
General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection Physiology and biochemistry Reproduction Harvesting and handling Quality By-products Dates Feijoas Litchis Longans Loquats Macadamias Olives Passion fruit Persimmons Pomegranates		55 55 55 55 55 55 56 56 56 57 - 57 - 57	123	182 	244 244 244 244 245 245 245 246 246 246 246 247 247 247	311 311 311 311 312 312 312 313 313	393 393 393 393 394 - 394 395 395 396 397 397 - - 397 - 397 398	467 467 467 470 471 471 471 472 473 473 473 473 473 474 474	546 546 546 546 547 547 547 548 548 548 549 549 549 549 549 550	610 611 611 611 611 611 612 612 613 613 613 613 613 614 614	658 658 658 659 659 660 660 	702 702 702 702 702 703 703 703 704 704 704 704	788 788 788 789 789 790 791 791 792 792 — 793 — 793 — 794 —
General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection Physiology and biochemistry Reproduction Harvesting and handling Quality By-products Dates Feijoas Litchis Longans Loquats Macadamias Olives Passion fruit Persimmons Pomegranates		55 55 55 55 55 55 56 56 56 57 - 57 - 57	123	182 	244 244 244 244 245 245 245 246 246 246 246 247 247 247	311 311 311 311 312 312 312 313 313	393 393 393 393 394 394 395 395 396 397 397 397 397 398 398	467 467 467 470 471 471 471 472 473 473 473 473 473 474	546 546 546 546 547 547 547 548 548 549 549 549 549 549	610 611 611 611 611 611 612 612 612 613 613 613 613 613 613 614 614	658 658 658 659 659 660 660	702 702 702 702 702 703 703 703 704 704 704	788 788 788 788 789 789 790 791 791 792 792 - 793 - 793 - 794

SUBTROPICA	LFR	UIT A	ND	PLAN	TATI	ON												
CROPS (co																		
Tung						2		MOL	L	THA.	101		_			660	_	_
Sundry cro	ps	***		•••		***	58	_	187	247	316		_	_	614	660	705	794
TROPICAL FI	_	AND	PLA	NTAT	ION	CROPS	130											
General					-11.1	TIME	58	129	187	MOL	316	398	474	550	614		705	794
Annona spe	cies					2.03	58	unilla.	187	247	316	_	474	550	-	_		
Arecanuts								129	_	_	_	398		_	-		-	_
Bananas and	d abac	ca					58	129	187	247	316	398	475	550	615	660	705	795
Cacao							_	130	187	248	316	399	475	550	615	661	706	796
Cashews							_	-	188	_	317	399	475	550	_	-	-	796
Coconuts							58	130	188	248	317	399	476	551	615	661	706	796
Coffee						1 1	58	131	188	249	317	400	476	551	616	661	706	797
Cola		***		***			-	-	188.	-		I PIT	-	-	-	-	_	798
Guavas							58	131	188	250	318	401	477	552	616	661	706	798
Mangoes						Sabarr	59	131	188	250	318	401	477	552	616	661	706	798
Oil palms		7		TIYL	470	2	59	132	189	250	319	402	478	553	617	AIT	707	798
Pawpaws		(1.00)				-19.3V	59	132	189	251	319	402	478	553	617	661	707	799
Pineapples				2 5		A new !	59	132	189	251	319	402	478	553	617	662	707	799
Rubber	14.01	3			11		59	132	190	251	320	402	478	553	617	662	707	800
Sapodilla							60	133	-	2-37	320	403		-	618	-	_	-
Sugar cane							60	133	190	251	321	403	479	554	618	662	707	801
General		***					-	133	190	251	321	403	479	554	618	662	_	801
Selection	n and	varieti	ies				60	134	191	251	321	105	479	555	618	662		802
Propagat	tion a	nd pla	nting	3			1.03	134	TI THE	252	321	403	and the same of	555	-	-	707	802
Climate	***							-	191	_	-	-			618	662	-	803
Managen	nent					•••	3753	134	191	252	321	403	479	555	618	662	707	803
Soils and	i nutr	ition					570	134	191	252	322	404	479	555	619	663	-	
Crop pro	otectio	on					60	134	192	252	322	404	479	556		663	-	803
Physiolo	gy an	d bioc	hemi	istry		****	60	1 1 7 7 7	192	117	322	404	480	556	619	663	707	803
Reprodu	ction	***					100	and a series	-	(T 1)	-	-	-	-	-	-	-	
Harvesti	ng and	d hand	lling			1013.21	61	DO THU	192	252	322	404	480	556	619	663	-	
Quality							_	-	4000	-	322	-	-	-		-	-	-
By-prod	ucts						61	_	192		-	-	480	-	619	-	-	804
Tea							61	134	192	252	322	405	480	556	619	663	708	-
Ziziphus sp	ecies	Ditt.		1000	+ C		-	135	192	253	111	406	481	556	620	-	708	804
Sundry cro								135	193	253	324	406	481	556	620	664	708	-

805

847

COLUMN TOTAL STREET

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AUTHOR INDEX

SUBJECT INDEX

COMMONWEALTH BUREAU OF HORTICULTURE AND PLANTATION CROPS

EAST MALLING RESEARCH STATION MAIDSTONE ME19 6BJ, KENT, U.K. Tel. West Malling 843833

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SYMBOLS FOR UNITS

Symbol	Unit or Prefix	Symb	ol	Unit or Pref	ix -	Symbo	ol .	Unit or Pr	refix
a	are	g		gramme		μbar		microbar	
A	ampere	G		giga-		min		minute (t	ime)
Å	angstrom	gal		gallon		mol		mole	
atm	standard atmosphere	h		hecto-		n		nano-	
Btu	British thermal unit	h		hour		Ω		ohm	
bu	bushel	hp		horsepower		oz		ounce	
c	centi-	hz		hertz		p		pico-	
°C	degree Celsius	in		inch		pt		pint	
cal	calorie	J		joule		q		quintal	
cd	candela	k		kilo-		qt		quart	
Ci	curie	1		litre		R		roentgen	
ctl	cental	1b		pound		rad		rad (amou	int of
cwt	hundredweight	lbf		pound-force					ed radiation)
d	deci-	lm		lumen		8		second (ti	ime)
da	deca-	1x		lux		+		tonne (me	
erg	erg	m		metre		T		tera-	659 993
f	femto-	m		milli-		ton		ton	
° _F	degree Fahrenheit	mbar		millibar		V		volt	
fl oz	fluid ounce	M		mega-		w		watt	
ft	foot			micro-		yd		yard	
11	1001	μ		micro-		yu		yaru	
SYMBOLS F	OR LANGUAGES								
Af Afrika	ane	Fi	Finnish			NI	Dutch an	d Flemish	
Ar Arabi		Fr	French				Norwegia		
,	ussian	Gr	Greek			Pl	Polish		
Bg Bulga		He	Hebrew				Portugue	se	
Ch Chine		Hu	Hungaria	n.		Ro	Romania		
Cs Czech	the second	In	Indonesia			Ru	Russian		
Da Danis	h	- It	Italian			Sh	Serbo-Cre	oat	
De Germ	an	Ja	Japanese			Sk	Slovak		
Ee Eston		Ko	Korean				Slovene		
En Englis		Li	Lithuania	n			Swedish		
Eo Espera		Lv	Latvian				Turkish		
Es Spani	sh	Ma	Macedoni	ian		Uk	Ukrainia	1	

Symbols with capitals represent the language of the paper; symbols without capitals the summaries.

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The Commonwealth Agricultural Bureaux (CAB) is a co-operative venture established by Commonwealth Governments to provide information and other specialized services for scientists and professional workers in agriculture and related fields. The organization is controlled by an Executive Council composed of nominees of the various Commonwealth Governments, including one for the Dependent Territories. The following pages list the present members of the Executive Council, and Liaison Officers who form the primary link in the member country.

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ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Volume 50

Page	Abstract	Line	
49	478	3	For 'Chaenomeles japonica' read 'Chaenomeles japonica'
53	543	3	For 'Leonurus cardica' read 'Leonurus cardiaca'
65	686	2	For 'Growth' read 'Synthetic growth'
69	769	ĩ	For 'HAYLIP, N.C.' read 'HAYSLIP, N.C.'
89	1005	3	For 'Prügung' read 'Prüfung'
104	1167	3/4	Insert 'De invloed van het bodemmilieu op de wortelontwikkeling van Amerikaanse anjers in kassen op uiterst fijnzandige zavelen kleigronden' between line 3 and line 4
105	1174	7	For 'Cotononeaster conspicua' read 'Cotoneaster conspicuus'
118	1331	5	For 'Cistus ladaniferus' read 'Cistus ladanifer'
118	1332	8	For 'Fokienia hidginsi' read 'Fokienia hidginsii'
121	1379	6	For 'Nicandra physaloides' read 'Nicandra physalodes'
129	1483	6	For 'Kola nitida and K. acuminata nuts' read 'Cola nitida and
			C. acuminata nuts'
157	. 1818	6	For 'Lipaphis erysmi' read 'Lipaphis erysimi'
191	2209	1	For 'Sugar Journal' read 'South African Sugar Journal'
239	. 2781	1	For 'ZAPROMETIV, M.N.' read 'ZAPROMETOV, M.N.'
243	2851	2	For 'Previous' read 'Preliminary'
243	2851	4	For 'augacate' read 'aguacate'
269	3171	3	For 'gragments' read 'fragments'
304	3585	4	For 'Gymnocladus dioicus' read 'Gymnocladus dioica'
304	3591	1	For 'Clerodendrum thomsoniae' read 'Clerodendrum thomsonae'
304	3591	2	For 'Clerodendrum thomsoniae' read 'Clerodendrum thomsonae'
304	3591	7	For 'Clerodendrum thomsoniae' read 'Clerodendrum thomsonae'
343	4080	1	For 'HRIČOSKÝ, I.' read 'HRIČOVKÝ, I.'
359	4259	2	For '(Etiella zinckenella' read 'Etiella zinckenella'
379	4474	14	For 'Potentilla fructicosa' read 'Potentilla fruticosa'
380	4484	1	For 'ACKERMANN, W.L.' read 'ACKERMAN, W.L.'
381	4495	1	For '(ET AL.) read '(ET AL)'
391	4633	6	For 'Nicandra physaloides' read 'Nicandra physalodes'
407	4824	2/3	For 'Ciencia y Técnica en la Agricultura, Citricos
			y otros Frutales' read 'Ciencia y Técnica en la
			Agricultura, Cítricos y otros Frutales, Havana, Cuba'
413	4936	14	For 'Pinus caribea' read, 'Pinus caribaea'
425	5065	1	For 'GONCHARAOVA, E.A.' read 'GONCHAROVA, E.A.'
437	5194	2	For 'on the' read 'on net photosynthesis of the'
449	5324	11	For 'Coreopsis' read 'Coreopsis'
454	5385	7	For 'Ondontoglossum' read 'Odontoglossum'
488	5889	I	For 'Università del' read 'Università Cattolica del'
488	5889	3	For 'Università del' read 'Università Cattolica del'
488	5891	1	For 'Università di' read 'Università Cattolica del'
488	5892	1	For 'Università di' read 'Università Cattolica del'
495	5995	3	For 'Orlovskaya' read 'Orlovskaya Zonal'naya'
495	5997	2	For 'Orlovskaya' read 'Orlovskaya Zonal'naya'
495	6000	3	For 'Orlovskaya' read 'Orlovskaya Zonal'naya'
496 500	6004	5 4	For 'Orlovskaya' read 'Orlovskaya Zonal'naya'
	6055	4	For 'Orlovskaya' read 'Orlovskaya Zonal'naya' For 'Orlovskaya' read 'Orlovskaya Zonal'naya'
503	6082	2 4	For 'Francisco.' read 'Francisco river.'
510	6173	2	For 'in the São Francisco region' read 'in the lower region of the
511	6178	2	
512	6204	2	São Francisco river'
513	6204	3	For 'magcsavahatása' read 'magcsávázás hatása'
513	6204	7	For 'capsicum' read 'onion'
514	6213		For 'tissue' read 'tissue temporarily' For 'Pseudomonas tolaasi' read 'Pseudomonas tolaasii'
527 540	6351 6532	10	For 'Origanum dictamus' read 'Origanum dictamnus'
340	0332	1	1 of Originam alciamus feat Originam alciamnas

Page	Abstract	Line	
540	6532	6	For 'O. dictamus' read 'O. dictamnus'
544	6593	2	For 'Nicandra physaloides' read 'Nicandra physalodes'
594	7185	3	For 'Rotylenchus' read 'Rotylenchulus'
594	7190	8	For 'Nicandra physaloides' read 'Nicandra physalodes'
622	7512	. 2	For 'Tetranychus ulmi' read 'Panonychus ulmi'
632	7637	5	For 'Conopia' read 'Synanthedon'
633	7644	20	For '(Pseudomonas' read '(Agrobacterium'
639	7727	7	For 'litres/ha gave the' read 'litres/ha and chlorothalonil (as Bravo) at 1.66 litres/ha gave the'
654	7884	6	For 'null' read 'mull'
659	7960	2	For 'pummelos' read 'grapefruit'
659	7960	9	For 'pummeloes' read 'grapefruit'
662	7990		Between lines 3 and 4 add 'Hluhluwe, South Africa'
662	7991	3	For 'Hevea' read 'Hevea'
684	8261	1	For 'CATE, C.H.H. TEN' read 'HANISCH TEN CATE, C.H.'
696	8391	13	For 'Laburnocytisus adamii' read 'Laburnocytisus adami'
699	8425	6	For 'Feronia elephantum' read 'Feronia [Limonia] elephantum'
705	8499	14	For 'Pithecolobium spp.' read 'Pithecolobium [Pithecellobium] spp.'
714	8659	6	For 'Nasanovia' read 'Nasonovia'
717	8697	2	For 'Gelderland.' read 'Gelderland Fruit Experimental Garden.'
761	9176	5	For 'medium 20-' read 'medium produced 20-'
761	9176	6	For 'volume raw substrate' read 'volume on raw substrate'
783	9469	1	For 'NUKHIMOSKIÏ, E.L.' read 'NUKHIMOVSKIÏ, E.L.'
785	9497	9	For 'Isoreserpiline:' read '(tetrahydroalstonine,'
794	9600	5	For 'Ortoflorofrutticoltura' read 'Ortoflorofrutticoltura Italiana'

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National, research and public organizations, but not commercial firms, are indexed under relevant country

All separate name particles, e.g. Di & von, are transposed to follow the initials.

Variants of author's names may appear next to each other.

Anonymous articles are indexed

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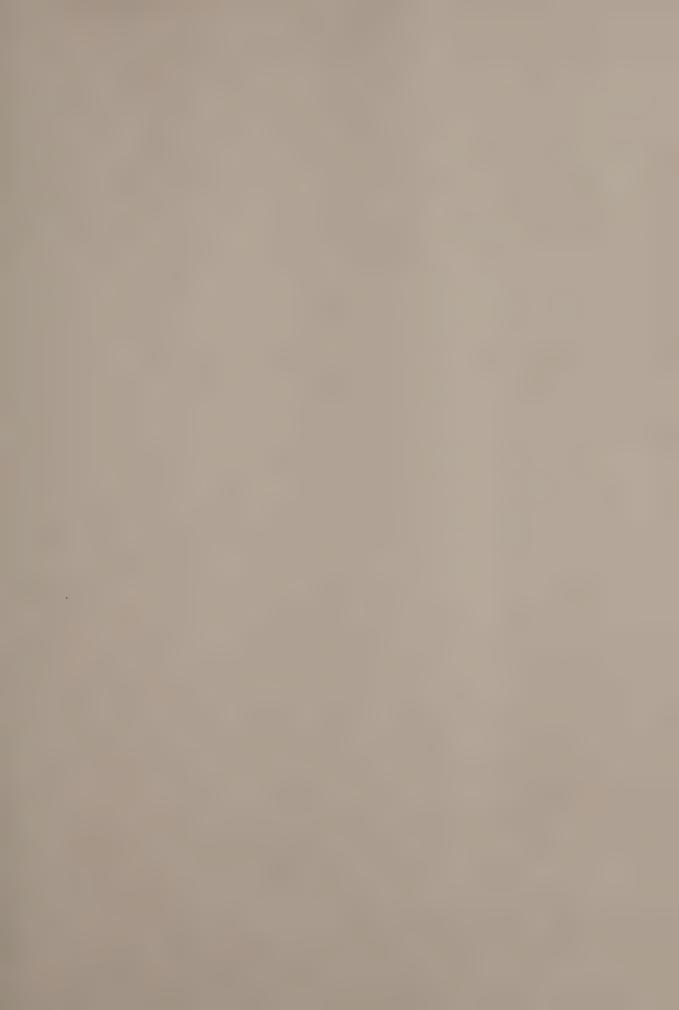
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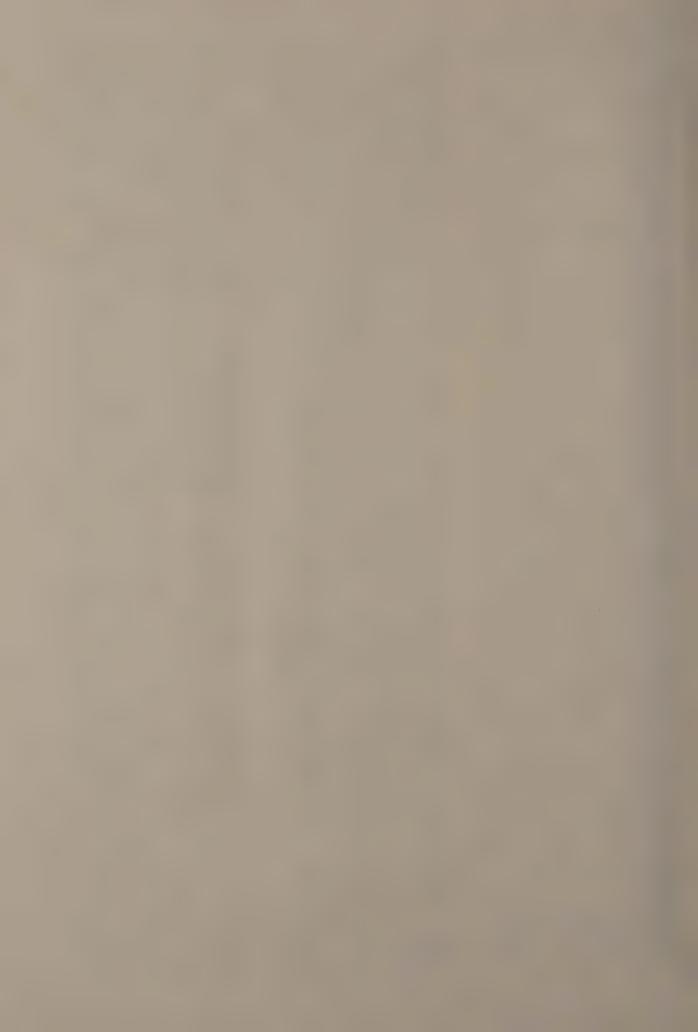
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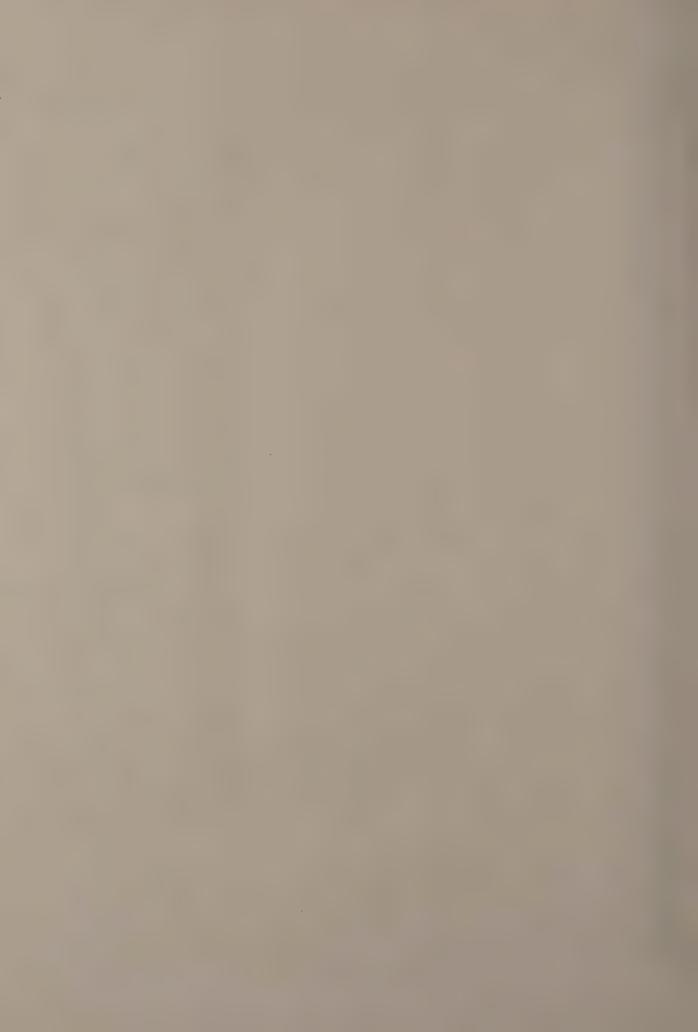
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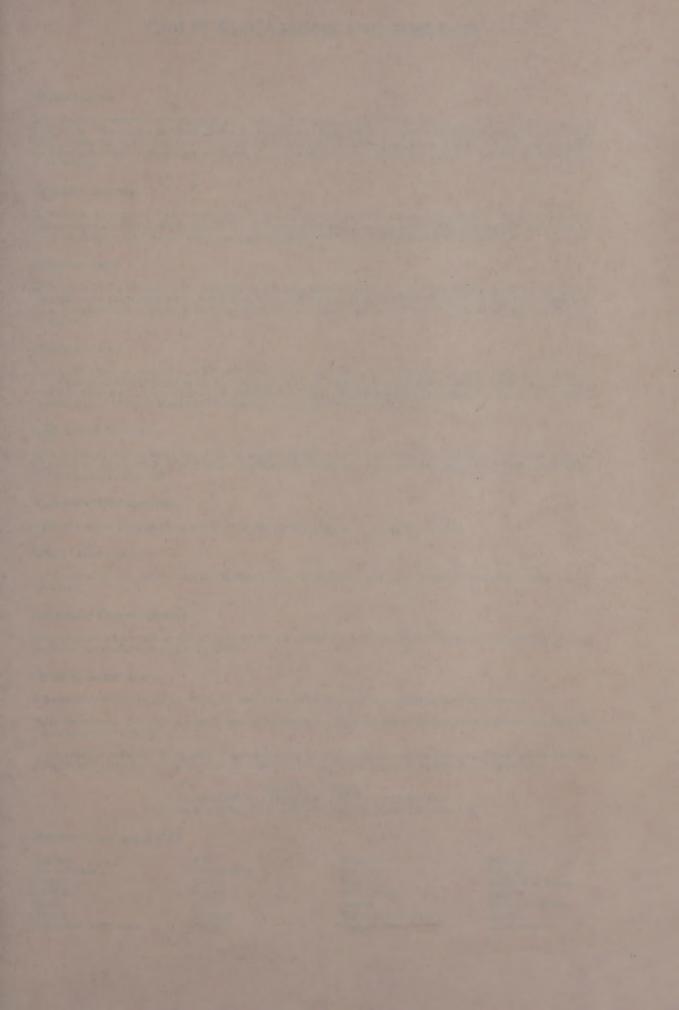
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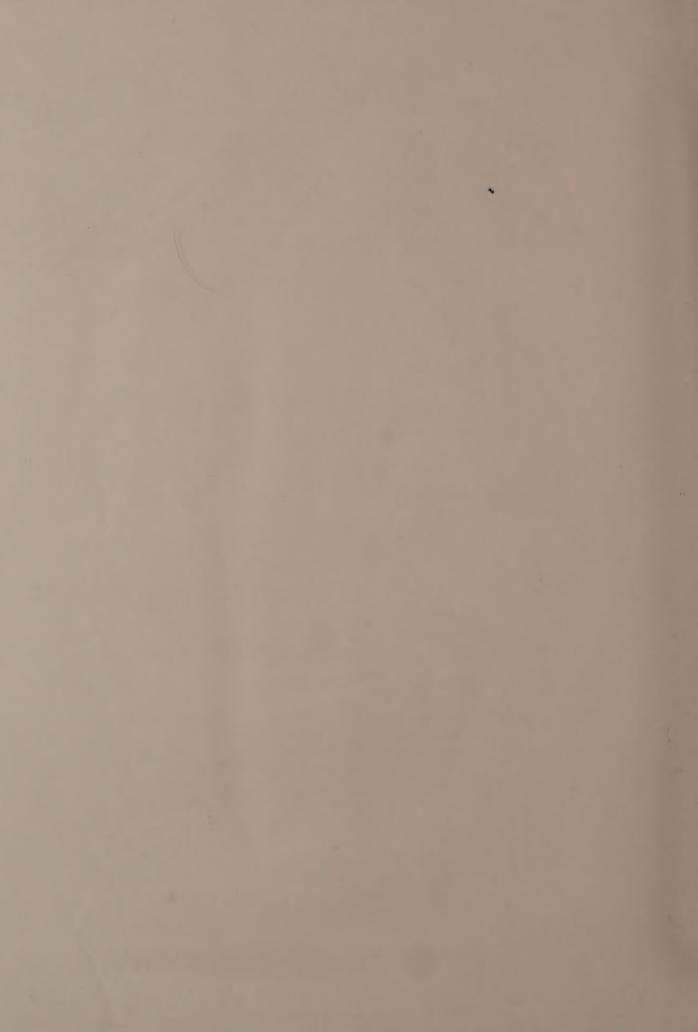












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